

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/720,583  
Source: PCP/09  
Date Processed by STIC: 7/27/2001

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:**

### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§ 1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be down loaded from the USPTO website at the following address:**  
**<http://www.uspto.gov/web/offices/pac/checker>**

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	SERIAL NUMBER: <u>09/720,583</u>
<b>ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHIA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE</b>		
1 <input type="checkbox"/> Wrapped Nucleics <input type="checkbox"/> Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input checked="" type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number .000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input type="checkbox"/> Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32). (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n	'n' can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	

PCT09

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/720,583

DATE: 07/27/2001  
TIME: 19:46:49

Input Set : A:\Sequence listing US.ST25.txt  
Output Set: N:\CRF3\07272001\I720583.raw

3 <110> APPLICANT: DSM N.V.  
4 POUWELS, Pieter  
5 van LUIJK, Nicole  
6 JORE, Johannes  
7 LUITEN, Rudolf  
9 <120> TITLE OF INVENTION: Propionibacterium Vector  
11 <130> FILE REFERENCE: MBHB00-1314  
13 <140> CURRENT APPLICATION NUMBER: US 09/720,583  
COKer 14 <141> CURRENT FILING DATE: 2001-06-25  
16 <150> PRIOR APPLICATION NUMBER: PCT/EP99/04416  
17 <151> PRIOR FILING DATE: 1999-06-25  
19 <150> PRIOR APPLICATION NUMBER: EP 98305033.7  
20 <151> PRIOR FILING DATE: 1998-06-25  
22 <160> NUMBER OF SEQ ID NOS: 13  
24 <170> SOFTWARE: PatentIn version 3.0

Does Not Comply  
Corrected Diskette Needed

## ERRORED SEQUENCES

271 <210> SEQ ID NO: 3  
272 <211> LENGTH: 85  
273 <212> TYPE: PRT  
274 <213> ORGANISM: Propionibacterium freudenreichii LMG16545  
276 <400> SEQUENCE: 3  
277 Met Thr Thr Arg Glu Arg Leu Pro Arg Asn Gly Tyr Ser Ile Ala Ala  
278 1 5 10 15  
280 Ala Ala Lys Lys Leu Gly Val Ser Glu Ser Thr Val Lys Arg Trp Thr  
E--> 281 20 25 30  
283 Ser Glu Pro Arg Glu Glu Phe Val Ala Arg Val Ala Ala Arg His Ala  
E--> 284 35 40 45  
286 Arg Ile Arg Glu Leu Arg Ser Glu Gly Gln Ser Met Arg Ala Ile Ala  
E--> 287 50 55 60  
289 Ala Glu Val Gly Val Ser Val Gly Thr Val His Tyr Ala Leu Asn Lys  
E--> 290 65 70 75 80  
291 Asn Arg Thr Asp Ala  
E--> 292 85

*residues*  
*amino acid*  
*Nos. - see item 3*  
*on Error*  
*summary*  
*sheet*

*See pg 2-3 for more errors*

1/720,583. 2

<220>  
<221> CDS  
<222> (1181) .. (1438)

delete this from sequence 1 - CDS

end  
at 1184

9/720, 583 3

<210> 4  
<211> 59  
<212> DNA  
<213> Artificial Sequence

<400> 4  
aattcaagct tgtcgacgtt aacctgcagg catgcggatc cggtaaccat atcagatct 59

FYI

The types of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors.

**VERIFICATION SUMMARY**  
PATENT APPLICATION: US/09/720,583

DATE: 07/27/2001  
TIME: 19:46:50

Input Set : A:\Sequence listing US.ST25.txt  
Output Set: N:\CRF3\07272001\I720583.raw

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:125 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#: 1, CDS  
LOCATION:1181..1438  
L:281 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3  
M:332 Repeated in SeqNo=3  
L:299 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:299 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:307 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:307 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:315 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:315 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:323 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:323 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:331 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:331 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:339 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:339 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:349 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:349 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:357 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:357 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:365 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:365 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:373 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:373 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: